SEQUENCE LISTING



(1) GENERAL INFORMATION:

- (i) APPLICANT: Lavi, Sara
- (ii) TITLE OF INVENTION: MANIPULATION AND DETECTION OF PROTEIN PHOSPHATASE 2C -PP2CALPHA- EXPRESSION IN TUMOR CELLS FOR CANCER THERAPY, PREVENTION AND DETECTION
- (iii) NUMBER OF SEQUENCES: 20
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Kohn & Associates
 - (B) STREET: 30500 Northwestern Hwy.
 - (C) CITY: Farmington Hills
 - (D) STATE: Michigan
 - (E) COUNTRY: US
 - (F) ZIP: 48334
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Kohn, Kenneth I.
 - (B) REGISTRATION NUMBER: 30,955
 - (C) REFERENCE/DOCKET NUMBER: 2290.00037
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (810) 539-5050
 - (B) TELEFAX: (810) 539-5055
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide



(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Asn Asp Asp Thr Asp Ser Ala Ser Thr Asp
1 5 10

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Tyr Lys Asn Asp Asp Thr Asp Ser Thr Ser Thr Asp Asp Met Trp

1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Pro Asn Lys Asp Asn Asp Gly Gly Ala
1 5

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "Primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
AGGATCAAGT CATAATGGGA	20
(2) INFORMATION FOR SEQ ID NO:5:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid(A) DESCRIPTION: /desc = "Primer"	
(iv) ANTI-SENSE: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
GCTGGAGTCT GATTTACAAC	20
(2) INFORMATION FOR SEQ ID NO:6:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid(A) DESCRIPTION: /desc = "Primer"	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
GAAGTAGTCG ACACCTGT	18
(2) INFORMATION FOR SEQ ID NO:7:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 21 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Primer"	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GTTTGAGACC TTCAACACCC C	21
(2) INFORMATION FOR SEQ ID NO:8:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Primer" 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
GTGGCCATCT CTTGCTCGAA GTC	23
(2) INFORMATION FOR SEQ ID NO:9:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
Met Gly Ala Phe Leu Asp 1 5	
(2) INFORMATION FOR SEQ ID NO:10:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Primer"	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CGGGATCCGC ATGGGAGCAT TTTTAGAC	28
(2) INFORMATION FOR SEQ ID NO:11:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
Thr Asp Asp Met Trp 1 5	
(2) INFORMATION FOR SEQ ID NO:12:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Primer"	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
CGCGGATCCT TACCACATAT CATCAGT	27
(2) INFORMATION FOR SEQ ID NO:13:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Silencer Region"	



(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

ACTCCATCAC TAGGGGTTCC TGGAGGGGTG GAGTCGTGAC GTGAATTACG TCATAGGGTT 60

AGGG

64

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "Mini-silencer region"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

ACTCCCATCA CTAGGGGTTC CT

22

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1573 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "35-3.seg (Figure 3)"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

AAGCTTGTCA AAATTACTAT TCAGTGTGAT TTTTAGTGGA TGAAACCTCA TGACTAGTAT

ATTATGACAT TAGCTTTGCG TAGTGAAGGC ACAAGCTGCT AAGTGGTTAG GGATGTATTT 120

TGCCGTAGCC TGTATCACNC CAGGTCCTGG GCTCGGTTCC TAGCATTACA GGAAAAAGCA 180

GGCGGTGGTT GACCTTTAAT GAATGGATTT TTCAATTTAG AAGTTGGTTT CATTTTAAAG 240

AATTCAAAAA TGTTCCCCAT AGCACTTTGT TTTGACATTG AGATCAGCTG CTAATTGAGG 300

TCCAGTATAT ACTTAGAAAA CTGAGCGAAA CTTTGATGGA CACACACAC CACCCCTGTT 360

GTTCATTTAA TAATTGAACT AAATAAAATA CTGTTTAGTC ATCCACGTAA GCAAGAGGCC 420

TGTGTAAACA GTATTTGTAT TAGTAAAAAC TTTATAACAT AGTTACATAA TCAGCATCAT 480

TTTTTTTATG GACCTTATAG TTGGCTACTT CACTGGGTTT GTTATAATTT AATCAGACTC 540

CTAAATAGGT TAAATTTCTG AATTGCCTAC TTCAGTTTTG AAGAATTATT TTGTTTCATA 600

ATTTCCCATG CATATCTGGT AAATAATTCT GGATTGTTTC TAAAGGGGAG AGCAAGGTCT 660

CTTATGCAAA GTGAAAATCT AGATATGCTG TTTGTAAGAA TATAATAGTG ATAAAGTAGT 720

GTCCTTTTGC TCAGTGCCTC CATTCTTACC AGGCTGTGAC TGATCTTCAG TATTATTCAG 780

ACAGTCACTA TTAATATC CGTTGCACAG TGGGGAAATT GAGGGAAGTT AGATAGGCAT 840

CGGGTATCTT AATCATAACT CACATATACC CAGCTGGCTA GTCAGCCTAG CTAAGACAGT 900

TCACACCCAG TTGAGGCAGC TTGCTGTTGG CCATTAGTAG GTAACTTAAT GGCTTGGTTT 960

CTTCACTGGT AAGGTGGGGA TATAATAATG CCAATAATTG CATAATGATT AAAGACATTA 1020

ATATATTCCA TAAAATTTCC TGAATAGTGC TTAGCTGGTA CCCCTCCCCA CACATGCACC 1080

CCAGTCCAAT GTTCAGATGT TTACTTTGTT AAGCCCAGTT AATCCATTCC CCCTAATATC 1140

TTCTCCCAGT TTGAAGAANG TTGAAGAATG TTGGGCTTGT TAGTTTAATT TTTTAAGAAG 1200

CATATCATGT TGCTTTTTTA AAACATGTTT CTTTGGGTTT TGGCTTCCCC TTTTGGAAAG 1260 AATTCCAATT TACACTTATG GAAGAAAGCC ATTGTCCCCT CCAATTTCCC CCCCTGTCCC 1320

TTTCCAATAC AGCCCAACTC CCCATGTTTT GACTTCCTCC CCTGAACCAC CCCGTTCTCC 1380

TGTTTTTCCC TCCCCCANAA AAAAAACCCA ATAATTTGAC TTTGGTAATT GAATTTCCCG 1440

CCNGTTAGGC NCCTGAATTG CCGAAATAAT TCCCCCGTGC NCCCNGGANT TTTGGCACCC 1500

CCTGCCCCTT AACCTGTTCT GCTGCCCCCC ATTTTTAAAT GGCTTGCCGC NTTACNCCAA 1560

ANACTGCCTT TCC

1573

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2580 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "35-T7.seg (Figure 3)"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

CTCGATCTCA CAAAGTCACA GAGCTCTTCG TTTCCCATGA CATCCCAGAT ACCATCACAT

GCAAGAATAA TGAACTGATC GTCCTCTTCA GACCTTTCAA TATCATGGAC TTCTGGCTCT 120

GGTGAGACGA GCTGCTCTGT GGGACCTTTT CCATGGACAC ATTTGTAATC GAAATCCCCA 180

AGGGCCCTTG ACACAGCCAG AGAGCCATTT ACACGCTGAA TCATCACAGA GCCCCCTGCA 240

TTCTGAATTC GTTCTTTTTC CAGCGGGTTA CTTGGTTTGT GGTCTTGTGT GAAGAAGTGA 300

ACTTTCCTGT TTCTACAAAG CAAACCTCTC GAGTCTCCAC AGTTAATGAA GTAAGTATGT 360

TTGGGGAGAA ATTAAGACCC CCACAGCTGT TTGACCCACT TCCTATCTGC ACCATGTTTT 420

CCTTCCTCCT GACATGACTC CTCATGTTGT TTCCATCAAT CTCCCAGAAA AACCTGTTCC 480

TGATCCCCAT TCCTTTACAT TTTCCCACAG AAAGGTGCTC CCTGCAGAGC CTTTTAAAAT 540

CCCTGGTTTA TTGGTGATGT TGATTCTNAA CAAATGCTCC ACAGCCAGTA TTTNGGCAAC 600

CTTGAAAAAC CAGCATGCCC ATCCATATAC AGCCAAGAAT GACCATGTTC TCCAGTTCCA 660

CTTTNGGCAA ACCCAATCCA CAGCCGTTNT GCGCATCCTC CCATTTCAAC TCCGCCCAAC 720

CNTTGCNTGC TGCNTTAAGC CATATCGCAA CCCATCCCCC CTGCCCCCTG GGGCATTATG 780

CNTTTCCATC TTTGGTTGTC TAAAATGCTC CCATTATGAC TTGATCCTCT AGGTCTGCAA 840

AGGAAGAAA ATAAGAAAGT TAGTAACTGT CTTTGAAACA AAGCACACAT CCAACAGTCT 900

TTTTGAAGCA CCTACGAGAT ACAAGGAAAC GTAAAAACTC ATAGGCTATA GCCATAAGCA 960

TTGTTCTACT GACTTGGAAA ATGTAGAGAT TAATAAGAAA GGGAAAGGCT GATCAAGTAC 1020

AGCTCAACCA GACAAGCAGC AGATGGAACT AAGTCACCAG GTAAAAGAGA GCTTGTTTGC 1080

CTCTCTGTGA TACCAAGGAG GCCCAGCAGT GACCATTAAC TTACATGAAC TAGGCAAGAT 1140

TTCAGGGTGC ATTCATCATA TGTAACCTCT CAATTAAGTT GTGTGTTGAT TAAAAAAAAT 1200

AATTCATAGA AACATACAAG TATCTACTAC TTCAGGGAAC CTTAGCTAAG TACTCAGGAA 1260

TGTTGAGAGT TTGATTCCAT GCTATTTAGT TTTGTTTCTA CAACTAGATA CCTTTGGTAA 1320

AAATAAAAG TAATTACTCA CACTGGTCCA AATTTTCAGT GCCTTGTGCA GGTCATTCTC 1380

TTTAGCTGGA ATTCCCTGCC TCACCTCTTT ACCAACAGAA AAAAAATACA CCTGTTTCTA 1440

TCCTTTGAAA TCCAGTTCAA TTGTTCCCCC TTCCTCCAGA CTTTACAGTC CTTGAAAAAA 1500

ACAAGTTATT AACTACAGAA GTCAGCTTCC ATTTCCAGTT NGGAATGTTT TTTAATGAAC 1560

AATTTTATTG TTCNAAATCT NACNATATGA TAACTAANCN AATGGTAATA ATATTTTCAN 1620

CCCTGCCCTA TGGCCGCTNT TTTTAATCCT NAAAAAAATC NAAGGTCTAT TCCNCCCNNC 1680

CTTGCCAATA CTTNACANCN CCAGTTCCCT GATCTGGAAT GGACCCACAA AGGTCAAGAC 1740

TTAGGTTANC CCTTGCTCAC AAACTAAAGA AAATCTTAAA GGAGAACAGA ATACTGAAGA 1800

GAGAAATGAG GGTGAAGGAC AGTGTTCAGG TGACGTTCTG AAACCAGGGG ACTAAANATA 1860

CCANAANTGG TGTTNCAGAC AGAAATGGTA TGGAAAACTC CTTAGGAAAG AAATGACANN 1920

TNTTGTTTCG CAGCAACCCC CNCACATGGC TTTCTCTTTT TCCTTCTGCT GATTAACTGA 1980

TGCACNTGGT ANAAAAGTCA ACANACCCCT CCTCCACNCA GACTCCCACC GAGTACANNG 2040

GCCCATGTGC TCANTACACT CTGCCCCAAA CTCNNANNAT TCATTCNNCT CCCCNTGTNA 2100

TTTATNAGGG CCTTTCCCNT CAGTTNTCTN ATCNCCAACG GANATTANCC TTCCANNNAT 2160

TTACCCCCNN TTTGTACANC ACATNNTGGC NNGTGCCACN GTTANGCGTC GGCNTCCCTG 2220

TTNCACTNCA TCCCTCATCN TTAGGCCANG TTTGATTCTC CNGTGCANAN TTTCCGCANN 2280

ANCNTACCCC TTGCACCNTC CATNTCTNNG GAANAACCTC CGGTTCTGAA TCTNCCCCNN 2340

TCCCGTCNCT CCCCCNTTCT TTCTTTTCTC TANTTTTTTC CNNGGNACGG GTTGNGGTNA 2400

ATNAANNCCC CTCCTTCGTC TATTCANCCC TTCCTATGNA CACTTCCTGN CCCCCTATCT 2460

CTCTATNTNC TNCTCTCTAT ATCTNNATCC CNTCTTCNCN TGCCNCTCCC TNGTNTTNNA 2520

NCGGGTATTT NTTNTTCTCC TCNTCTTCTT CCCCTNTNTA NCCNTNCTNC NNNCNNNCCC 2580

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 830 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "5H-1 (Example 10)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

TGGGGGAGAG GACTGAAATA TTTCCACAGC CTTTTTATTG GTGGTGATGG TAGTGATGGT 60

TTTTTTTTT GAGACAGGGT TTCTCTGGGT ACTCCTGGAA CTCACTTTGT GGACCATGAA 180

TGACATGAAT ACTTCGATAT ATACATACAT ACAAAGACAC ATATTTTTAA AAAGAGAATT 240

AGAGTAGAGC TGGGGCAATT GTGGAACACA CCTTTAACCT CAGGCAGATT TCTGCGTTCA 300

AGGTCACCTT GGATTACAAG GCAGCTAGGG CTACACAGAG AAACCATATC TCAAAAAAAA 360

AAAGGAAGGT AGGAAGAAAG GTATTTTCCT AAAAAAAAA AAAAAAAAA TTTATTCCGG 480

GCAGTGGTGG CAAATGCTTT TAATCCCACC ATTTGGGAAA GCAGAGGCAG ACAGATTAAA 540

TTTTCAAGGC CCACCTGGTC CTACACAGTG AATTCCAGGA ACACCTAGGT TTACCCANAA $600\,$

AAAACCCCCC CTTGAAATAA ACAAAAATAA ATTAAATAAA TAAAATTTAA AAATAAAACC 660

CGGGCGTTAA ACCCNCTTTT ATCCCCCCAC TTNGGAAGCA AAAGCCGGCN GATTTCTGAA 720

TTCNAGGCCN CCCTGTCTAT GAATTANTTC CCNGAACACC CNAATTTTTC NAAAAACCCC 780

CCNTTTCTTA AAAAANCCAA ATTATTATTN ATTAATTAAA TNAAATTACC

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 838 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "AN8T7 (Example 10)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

GGAGTCCAAC AATGGTTTCC ACTTGTCTGG CGGCCGCTCT AGAGTTTCCC ATAAGCTGGA 60

CTGAGAGATG GTGTGATTGC TGTGGGTGAC AAAGACAGAG GCACCTTTCA TCTCTACCCT 120

TCTCTTGTTT TGTTGTTTGT TTGAGACCGG TTCCCACTAT GTAGACCAGG CTGGAGGACA 180

GGGTCTCACT ATGTAGACCA GGCTGGCCTT GAACTCAAAG ACATCTGCCT GCCTCTGCCT 240

CCTGAGGGCT GGGATTAAAG GCGTGTGCTG CCACTGACAG CTTCTATCCT CCTGTCATCA 300

GTCCCGGCTC ACAGGGCCAG AAGATCTCTT CTATGCTTCC ACTATTTCCC CAATCCATTC 360

CCACGCAGC CTCTCCATCT CCCTACCACC AAGACAGCAG CCTAGTGATA TAACAAAACT 420

TTTATTCACA GGAAACCGGA AAACAAAATC ACAACCAATC ATTTCTATCT AGTCCCTGCC 480

CTAGCCCTCC CTCCAAGCCC CTACATATCC TCCATCTGAG GGGGATGCAT GCGTTGGGTG 540

GGAGCTGCCG GCATCCTTAT CCTGGTTCCT GGAGTAGNGA AGAGTGGTTC TTTTCAACGN 600

CTAGGGNNCT CCCCTCCAAG TTNGGACCTC TCTTCCCAGG NCTTCNCCCC TCCCTNACAG 660

GGNACAAAAA ACCAGGNACG GCACNACGCC AGGNAGGAAG GGACTCTTGG NAATGTTGGG 720

CAGGACTTGT CCTCAGAATT CCNNGGAGGA ATCAAGGGCC TTGAATTCGG GAACCACTNC 780

CGAGGNCTTC ANCANGGCAN AGTTCAATTT TCCATCCCGG TTGGCCCANC CTGGCCNG 838

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 180 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "CHINT (TABLE 5)"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

TAGTGCCGGT CAAGGAACTG AACGTGCGAT TCCGGGACAG GCTACCCACT CCGATCCCAG 60

GAGAAGTTGT CATGGTGAGG GCCACCCTAG GTCTCTGCCC CTGCTGTGTC CCCCATCTTA 120

CCCATCCAGT AGGATCTAGA GGCTGTCGCC CCCTTGTGGA ATGCACAGAA GTCACAAGCG 180

- (2) INFORMATION FOR SEQ ID NO:20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 175 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "HUMMDB (TABLE 5)"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

CCTCACCTCC GCCCTGTTTC GTCCAGGTCC TCCGGGTCAG GCTACCCCCG TCGCCGCCAG 60

AGCGCGGGG AGGGGAGAGC TTCCTTTGTC TCCTATGCCT CCTCCCCCA TCCCGGCTCT 120

CCTGCGGGCA AGCGCCGAGG GGACACCGGG GAGTACCCCA CCTGAACCTC TGGGG

